

ATTACHMENT

Currently Pending Claims 1-6 from Ser. No. 09/928,883

1. A heat transfer element comprising a high heat transfer medium, wherein the high heat transfer medium is formed by dissolving the following compounds in water to produce a mixture, and drying the resulting mixture to produce said heat transfer medium product with said compounds in the following weight percentages:

- (1) Cobaltic Oxide (Co_2O_3), 0.5-1.0 %;
- (2) Boron Oxide (B_2O_3), 1.0-2.0 %;
- (3) Calcium Dichromate (CaCr_2O_7), 1.0-2.0 %;
- (4) Magnesium Dichromate ($\text{MgCr}_2\text{O}_7 \cdot 6\text{H}_2\text{O}$), 10.0-20.0 %;
- (5) Potassium Dichromate ($\text{K}_2\text{Cr}_2\text{O}_7$), 40.0-80.0 %;
- (6) Sodium Dichromate ($\text{Na}_2\text{Cr}_2\text{O}_7$), 10.0-20.0 %;
- (7) Beryllium Oxide (BeO), 0.05-0.10 %;
- (8) Titanium Diboride (TiB_2), 0.5-1.0 %;
- (9) Potassium Peroxide (K_2O_2), 0.05-0.10 %;
- (10) A selected metal or Ammonium Dichromate (MCr_2O_7), 5.0-10.0 %;

where "M" is selected from the group consisting of potassium, sodium, silver, and ammonium;

- (11) Strontium Chromate (SrCrO_4), 0.5-1.0 %; and
- (12) Silver Dichromate ($\text{Ag}_2\text{Cr}_2\text{O}_7$), 0.5%-1.0 %;

the heat transfer medium is positioned on a substrate.

2. A heat transfer element according to claim 1, wherein the weight percentages in the heat transfer product are:

- (1) Cobaltic Oxide (Co_2O_3), 0.7-0.8 %;
- (2) Boron Oxide (B_2O_3), 1.4-1.6 %;
- (3) Calcium Dichromate (CaCr_2O_7), 1.4-1.6 %;
- (4) Magnesium Dichromate ($\text{MgCr}_2\text{O}_7 \cdot 6\text{H}_2\text{O}$), 14.0-16.0 %;
- (5) Potassium Dichromate ($\text{K}_2\text{Cr}_2\text{O}_7$), 56.0-64.0 %;
- (6) Sodium Dichromate ($\text{Na}_2\text{Cr}_2\text{O}_7$), 14.0-16.0 %;
- (7) Beryllium Oxide (BeO), 0.07-0.08 %;
- (8) Titanium Diboride (TiB_2), 0.7-0.8 %;
- (9) Potassium Peroxide (K_2O_2), 0.07-0.08 %;
- (10) A selected metal or Ammonium Dichromate (MCr_2O_7), 7.0-8.0 %; where

"M" is selected from the group consisting of potassium, sodium, silver, and ammonium;

- (11) Strontium Chromate (SrCrO_4), 0.7-0.8 %; and
- (12) Silver Dichromate ($\text{Ag}_2\text{Cr}_2\text{O}_7$), 0.7-0.8 %.

3. A heat transfer element according to claim 1, wherein the weight percentages in the heat transfer medium product are:

- (1) Cobaltic Oxide (Co_2O_3), 0.723 %;
 - (2) Boron Oxide (B_2O_3), 1.4472 %;
 - (3) Calcium Dichromate (CaCr_2O_7), 1.4472 %;
 - (4) Magnesium Dichromate ($\text{MgCr}_2\text{O}_7 \cdot 6\text{H}_2\text{O}$), 14.472 %;
 - (5) Potassium Dichromate ($\text{K}_2\text{Cr}_2\text{O}_7$), 57.888 %;
 - Sodium Dichromate ($\text{Na}_2\text{Cr}_2\text{O}_7$), 14.472 %;
 - Beryllium Oxide (BeO), 0.0723 %;
 - (8) Titanium Diboride (TiB_2), 0.723 %;
 - (9) Potassium Peroxide (K_2O_2), 0.0723 %;
 - (10) (10) A selected metal or Ammonium Dichromate (MCr_2O_7), 7.23 %;
- where "M" is selected from the group consisting of potassium, sodium, silver, and ammonium;
- (11) Strontium Chromate (SrCrO_4), 0.723 %; and
 - (12) Silver Dichromate ($\text{Ag}_2\text{Cr}_2\text{O}_7$), 0.723 %.

4. A heat transfer element according to claim 1, wherein the heat transfer element is a heating element.

5. A heat transfer element according to claim 1, wherein the heat transfer element is a heat-dissipating element.

6. A heat transfer element according to according to claim 1, wherein the heat transfer element is a heat exchange element.